Work Order ID 93317 Page 1 November-15-12 11:37:10 AM Accept *N900040100* Setup Start 647.7701 Item ID: **Revision ID:** Strut Assembly Item Name: Start Qty: 8.00 **Cust Item ID:** 11/15/12 Start Date: Required Date: 12/07/12 Req'd Qty: 8.00 Customer: Reference: Run Process Plan: MUT Date: 12-11-16 Tooling: Date: Approvals: Stop QC: Date: SPC (Y/N): Date: Reject **Tool ID** Tool # Plan Accept Reject Insp. Operation Set Up/ Sequence ID/ Qty Number Stamp Code **Qty** Description **Run Hours** Work Center ID **Revision Nbr** Draw Nbr N/C 647.7700 Pick Kit 0.00 110 (B) & 13-3-6 *110* 0.00 Packaging Memo Packaging Weld per dwg A/R 4130 rod Batch: 1/1/8875 0.00 120 8 Q 13-3-8 *120* 0.00 Large Fab Memo 1- ASSEMBLE AND WELD AS PER DWG Large Fab 2- ON STRUT THREAD REMOVE CADE PLATE ONLY WHERE NEEDED

BEFORE WELDING

***IMPORTANT DIMENSION IS 11.60" ***

NCR: Y	res /	No				WORK ORDER NON-O	CON	FORN	/ANCE / UPI	DATE					
						·					QA Closed:	Date	:		
Work Orde	er:					DISPOSITION	İ	AGAINST DEPARTMENT/PROCESS							
Part N	No					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite				Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other		
Root					Descri	ption of work order update	In	itial	Act	ion	Sign &				
Cause	[Date	Step	Qty	(or Non-conformance	Chie	ef Eng	Descr	iption	Date	Verification	QC Inspector		
Doc/Data		:						j				·			
Equip/Tooling	_									•					
Operator	_								•		:				
Material															
Setup															
Other						•									
Process	_														
Supplier															
Training	_										·				
Unapproved						<u> </u>	<u> </u>								
							AULI	CATE	ORY				 -		
Landir	ng Geai					General	\Box			Г	٦		¬		
}	_	nding			\(\begin{array}{c} \be	Bend	\vdash	Grain		-	Ovalized	-	Pressure/Forced		
-			t Concer	itric to C	" ⁵ -	BOM/Route	\vdash	lardwai			Over/Under	 	Temperature/Cure		
	Cra			•		Broken/Damaged	\vdash		on Incomplete		Part Incorre	<u> </u>	Weld		
}	—		rimped.		-	Burrs	⊢		ons Incomplete/U	Inclear		Part Lost/Missing Wrong Stock			
}	Cuf					Countamination	\vdash	Mainte		-	Part Moved	4 for a second			
 		at Treat		+	<u> </u>	Countersink	-	Mislabel		-	Positioned \		704		
 			Strip in	ıupe	-	Cut Too Short	$\boldsymbol{\vdash}$	Misread		L	Power Loss/	Surge	Other		
}	— 1	ples in I			-	Drill Holes	\vdash	Offset	. 191 - 43						
	Torque Waves in Extrusion					Drawing	1 10	Jut of C	alibration						

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ord November-15-12						W. W.		Page 2	!					
Item ID: Revision ID: Item Name:	647.7701 Strut Assembl			Accept	*N900)*	Setup	Start Stop		S1* S2*				
Start Date: Required Date:	11/15/12	Start Qty: 8.00 Req'd Qty: 8.00		*ጸ* *ጸ*		Cust Item II Customer:	D:			÷				
Reference:								_]	Run	Start	**!	R1*	
Approvals:	Process Pla	n:	Date:		_ Tooling:	Date:					Ston	171	K I	
	QC:		Date:		SPC (Y/N):	Date:					Stop	*N	R2*	
Sequence ID/ Work Center II)	Operation Description	· ·		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp	
130 _ /		QC9- Inspect visual per	QSI004- Fusion	n Welds	0.00								040	
130 QC Quality Control		Мето		4 .	0.00				<u>(S)</u>	13	o-03-	<u>06</u>	09	•
140		OC5- Inspect part comp	leteness to step	on W/O	0.00			e.					TiA o	

Quality Control

140

Memo

0.00

B 13.03-06 09

150

150 SprayPaint Spray Painting

0.00

Memo

0.00

PRIOR TO PRIME MASK THREAD AND PRIME AS PER DWG PRIMER BATCH: 125459

8 Ø Ø Al

									DQA:	Date	·			
NCR: Yes /	No No				WORK ORDER NON-C	ONFORM								
							QA Closed:	Date	: 					
Work Order:					DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No					Rework Scrap Use-as-is Work Order Update	! Therm	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other			
Root	·			Descrip	otion of work order update	Initial	Initial Action							
Cause	Date	Step	Qty	C	or Non-conformance	Chief Eng	Descrip	tion	Date	Verification	QC Inspector			
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved				;										
					FA	ULT CATE	GORY							
Ce	ending entre Not	t Concen	tric to (o/s	General Bend BOM/Route	Grain Hardwa			Ovalized Over/Under		Pressure/Forced Temperature/Cure			
Cru	acks rushed/C uffs eat Treat	•			Broken/Damaged Burrs Contamination Countersink	Instruct	Inspection Incomplete Instructions Incomplete/Unclear Maintenance			ssing Vrong	Weld Wrong Stock Pulled			
ins	spection pples in l	Strip in	Tube		Cut Too Short Drill Holes	Misread			Positioned V Power Loss/	· -	Other			

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 93317 *93317* Page 3 November-15-12 11:37:10 AM *N900040100* 647,7701 Accept Setup Start Item ID: **Revision ID:** Stop Item Name: Strut Assembly **Start Date:** 11/15/12 Start Oty: 8.00 **Cust Item ID:** Req'd Qty: 8.00 Required Date: 12/07/12 **Customer:** Reference: Run Process Plan: Date: Tooling: Date: Approvals: Stop Date: SPC (Y/N): Date: Reject Insp. Tool # Plan Reject Tool ID Accept Set Up/ Sequence ID/ Operation Qty Code **Qty** Number Stamp **Work Center ID Description Run Hours** QC14- Inspect Spray Paint 160 13/66/10 *160* QC Memo Quality Control - 8x 1/1. 13-06-10 8P 13/6/11 H Identify as per dwg & Stock Location: ST139 E 0.00 170 *170* 0.00 Packaging Memo ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING THE P# AND Packaging REV*** QC21- Final Inspection - Work Order Release 0.00 180

0.00

Memo

120

Quality Control

QC

									DQA:	Date:		
NCR: Ye	es / No				WORK ORDER NON-C	ONFOR	MANCE / UF	DATE				
									QA Closed:	Date:		
Work Order	·:				DISPOSITION		PARTMENT	PARTMENT/PROCESS				
Part No	D				Rework Scrap Use-as-is	Ther	Skid-tube Machining moforming	Crosstube Small Fab Finishing	Water Jet Prod. Eng. Coor. Rec/Store/Packaging		Engineering Quality Other	
NCR No	o				Work Order Update		Large Fab	Composite	j	Supplier		
Root				Descri	ption of work order update	Initial	Ad	tion	Sign &			
Cause	Date	Step	Qty	,	or Non-conformance	Chief En	Desc	cription	Date	Verification	QC Inspector	
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup	, 					پد ء		÷				
Other		1			•	<i>(</i> 2)						

Unapproved **FAULT CATEGORY Landing Gear** General Bend Grain Ovalized Pressure/Forced Bending BOM/Route Centre Not Concentric to O/S Over/Under tolerance Temperature/Cure Hardware Cracks Broken/Damaged Inspection Incomplete Part Incorrect Weld Crushed/Crimped. Burrs Instructions Incomplete/Unclear Wrong Stock Pulled Part Lost/Missing Cuffs Maintenance Contamination Part Moved Heat Treat Countersink Mislabeled Positioned Wrong Inspection Strip in Tube Cut Too Short Misread Other Power Loss/Surge Drill Holes Ripples in Bend Offset Torque Waves in Extrusion Drawing Out of Calibration Turning Sequence Finish Out of Sequence Wave/Twist in Tube Folio Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Process Supplier Training **Picklist Print**

November-15-12 11:37:10 AM

Work Order ID:

93317

Parent Item:

647.7701

Parent Item Name:

Strut Assembly

Start Date: 11/15/12

Required Date: 12/07/12

Page 1

Start Qty: 8.00

Required Qty: 8.00

Comments:

IPP REV:A 12.11.01 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7710		Manufactured	No			110	Each	0.0000	1	z ,8	12.2.		
Strut Tube			B	93737	' メ8							.>	
647.7712		Manufactured	No			110	Each	0.0000	1	~ 8	12.9.		
Strut Tube		В	93203	2 X ('	B93203;	√ 7				_C-L	123-	<u> </u>	
647.7713		Manufactured	No		0 (200)	110	Each	0.0000	1	a 8	2 2 5		
Strut Thread				~						EL 1	7-/-2		

93245 x8

												DQA:	Date	:		
NCR:	Yes	/ No					WORK ORDER NON-C		_							
										·		QA Closed:	Date	2:		
Vork Ord	er:					l	DISPOSITION		AGAINST DEPARTMENT/PROCESS							
	Part No. Rework									Skid-tube Machining	Engineering Quality					
NCR No.							Use-as-is Work Order Update		Thermoforming Finishing Large Fab Composite			Rec/Stor	re/Packaging Supplier	Other		
Root					Desc	rip	tion of work order update	ı	Initial	itial Action		Sign &				
Cause		Date	Step	Qty		0	r Non-conformance	Ch	nief Eng	Descr	iption	Date	Verification	QC Inspector		
oc/Data uip/Tooling perator aterial etup ther occess upplier raining																
-,,			<u></u>				F/	\UL	T CATE	GORY						
Landi	ng G	Gear					General									
-		Bending Centre Not Concentric to O/S					Bend BOM/Route Broken/Damaged		Grain Hardwa	re on Incomplete		Ovalized Over/Under tolerance Part Incorrect		Pressure/Forced Temperature/Cure Weld		
	_	Cracks Crushed/Crimped					Burrs		1	ions Incomplete/L	Inclear	Part Lost/Mi	 	Wrong Stock Pulled		
	Cuffs Crushed/Crimped						Contamination		Mainte		-	Part Moved				
İ	Heat Treat						Countersink	H	Mislabe			Positioned V	Vrong			
	Inspection Strip in Tube					\neg	Cut Too Short	\vdash	Misread			Power Loss/		Other		
	_	Ripples in		-	F	_	Drill Holes		Offset		L .		J			
		Torque W		xtrusio	,	-	Drawing	Out of Calibration								
	Turning Sequence					-	Finish	Out of Sequence								

Outside Dimensions

Wave/Twist in Tube

Folio



